

PATENT  
213/001-CIP

residue purified by chromatography (CH<sub>3</sub>OH- Hexanes-CHCl<sub>3</sub>, 1:1:8) to yield 414 mg (45%) of 5'-O-(4,4'-dimethoxytrityl)-3'-C-aminomethylthymidine as a colorless solid.

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**Example 10****Preparation of****5'-O-(4,4'-dimethoxytrityl)-3'-C-trifluoroacetamidomethylthymidine**

10 A solution of 5'-O-(4,4'-dimethoxytrityl)-3'-C-aminomethylthymidine (361 mg; 0.628 mmol) and ethyl thior trifluoroacetate (490 mg, 3.12 mmol) in anhydrous THF (6 ml) was stirred at room temperature for 6 h. Solvent was evaporated and the residue purified by chromatography on  
15 silica (5% CH<sub>3</sub>OH in CH<sub>2</sub>Cl<sub>2</sub>) to yield 411 mg (98%) of 5'-O-(4,4'-dimethoxytrityl)-3'-C-trifluoroacetamidomethylthymidine as a colorless powder.

**Example 11**

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**Preparation of****5'-O-(4,4'-dimethoxytrityl)-3'-C-trifluoroacetamidomethyl-thymidine 3'-(2-cyanoethyl-N,N-diisopropylphosphoramidite)**

25 To a stirred solution of 5'-O-(4,4'-dimethoxytrityl)-3'-C-methylthymidine (411 mg, 0.614 mmol) and diisopropylethylamine (0.64 ml, 3.65 mmol) in anhydrous dichloromethane (6 ml) at 0 °C under argon was added dropwise a solution of 2'-cyanoethyl-N, N-diisopropylchlorophosphoramidite (410 mg, 1.83 mmol) in anhydrous dichloromethane. The resulting  
30 reaction mixture was stirred at room temperature for 2 h, cooled to 0 °C, diluted with cold CH<sub>2</sub>Cl<sub>2</sub> (30 ml), and washed with cold NaHCO<sub>3</sub> (3 x 20 ml). The organic layer was dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated. The residue was purified by